

Nullifire System M701/M703

FIRE RESISTANT AND ACOUSTIC SEALANTS

for ALL BUILDING & CONSTRUCTION JOINTS



TYPICAL APPLICATIONS

- Movement joints in compartment walls & floors
- Sealing in & around lightweight flexible partitioning
- Gaps between timber and steel doors & window frames and the sub-straight
- Decorative Joints
- Sealing around service penetration, steel pipes, steel ducts, duct trays, cables and cable trays
- Provides air sealing in-line with 'Approved Document L'
- Maintains the acoustic performance of the substrate
- Maintains the acoustic performance used in conjunction with Nullifire B747 Coated Board System for larger service penetrations

JOINT SUBSTRATE

- Masonry to masonry
- Masonry to steel
- Steel to steel
- Masonry to timber (hardwood and softwood)
- Around pipes, services and cables
- In conjunction with Nullifire B747 Coated Board System

NOTE: For substrates outside of this range please contact Nullifire Technical Services Department

TESTING & CERTIFICATION

FIRE PERFORMANCE: Tested with accordance with BSEN1366-4 Up to 5 hrs (WFR NO)

ACOUSTIC PERFORMANCE: Tested with accordance with BSEN ISO 140-3:1995 (No)

AIR PERMEABILITY: Tested with accordance with EN 1026 (No)

M701: Water-borne intumescent acrylic mastic. Fire resistant sealant for low movement joints (20%). For internal use.

M703: Solvent free silicone sealant. Fire resistant seal for high movement joints (up to 50%). For internal and external use.

KEY FEATURES

M701

- Up to 5 hours fire resistance
- Only 6mm depth for a 2 hour seal
- Suitable for gaps up to 50mm wide
- Available in a range of colours
- Slump free with a long service life
- Accommodates up to 20% movement
- Seal ratio at 2:1 (10mm width x 5mm depth)
- Can be easily overpainted
- Reduces air leakage
- Maintains sub-straight acoustic performance

M703

- Up to 5 hours fire resistance
- Only 6mm depth for a 2 hour seal
- Accommodates up to 50% movement
- Suitable for gaps up to 50mm wide
- Excellent unprimed adhesion
- Slump free with a long service life
- Seal ratio at 2:1 (10mm width x 5mm depth)
- Reduces air leakage
- Maintains sub-straight acoustic performance

Safe and durable

- Asbestos and halogen free
- No shrinkage
- Resistant to mould, fungus and vermin attack

Nullifire®

FIRE PROTECTION WITHOUT COMPROMISE

PRODUCT RANGE

Standard 310ml cartridges +
600ml sausages

Colours

M701: Off-white
M703: Off-white

NOTE: Special colours are available on request, refer to Nullifire Technical Department.

Supply: Boxes of 12

Ancillaries

M710 Polyethylene Backing Rods in 6, 10, 12, 15, 20, 25 and 30mm diameters.

Supplied in coils

PROPERTIES

	M701	M703
Solids content	80-83%	94-97%
PH value	8.5-9.9	N/A
Flashpoint	N/A	120°
Specific gravity	1.55-1.65	1.3-1.4
Viscosity	Thixotropic	Thixotropic
Tensile strength	0.3N/mm ²	1.3N/mm ²
Touch dry	30-60mins.	15-30mins.
Through cure time @ 20°C	20 days	30 days

SITWORK

Tools required

- Standard cartridge/skeleton gun
- Palette knife or spatula

Preparation

- Clean all surfaces of loose particles, moisture, oils, grease and corrosive materials
- Abrade painted or shiny surfaces
- Check specification is suitable for movement, fire rating and gap size

Installation

- 1 Insert backing material, oversized to joint width to ensure stability, to provide correct depth of seal (M701 - min. 5mm; M703 - min. 5mm)
 - For single seal: Use non-flammable backing (mineral fibre or ceramic fibre)
 - For double seal: Use M710 Backing Rod
- 2 Cut nozzle of cartridge to required bead size
- 3 Gun sealant into gap to required depth
- 4 Tool to a smooth finish immediately with a wet palette knife or spatula

TECHNICAL SUPPORT

Full technical support available at all stages of a project from selection and specification to installation and maintenance. Including:

- Product Data Sheets
- Material Safety Data Sheets
- Fire engineering support
- Materials estimating
- Application and product training
- On site inspection and verification*

For information or assistance, contact Nullifire:

Telephone 024 7685 5000

Facsimile 024 7646 9547

Email protect@nullifire.com

***NOTE:** Applicable to areas accessible for inspection only. Those parts of the structure to which access cannot be gained, for example areas made inaccessible by subsequent construction work, are outside the scope of Nullifire inspection and verification.

PERFORMANCE

M701/M703 FIRE RESISTANT SEALANT

Fire performance

Tested to

Both BS 476: Parts 20/22:1987 and BS EN 1366-4 up to 5 hours in suitably designed joints.

Sealant	Gap width	Period of Fire resistance	Depth of sealant required
M701	12-50mm	1,2,3,4,5hrs integrity and insulation depending on substrates and joint width	50% of width
M703	12-50mm	1,2,3,4,5hrs integrity and insulation depending on substrates and joint width	50% of width

NOTE: For installation ratings and gaps outside of this range please refer to Nullifire Technical Department

MATERIAL REQUIREMENT

To determine quantity of sealant required, calculate as follows:

$$\frac{\text{Gap width} \times \text{Depth} \times \text{Total length}}{310} = \text{No. of cartridges}$$

For further guidance on application methods, and material requirements, please contact Nullifire Technical Services Department.

MAINTENANCE

No maintenance required after installation.

Routine inspection recommended to ensure no damage to the system.

HEALTH AND SAFETY

Material Safety Data Sheet available on request.

HOW TO ORDER

Available direct from Nullifire Ltd.

Contact the Sales Department for full details. Available in boxes of 12 tubes.

Nullifire[®]

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